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cons.aa	G G G V	A K	E
htGFBR-II	LDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKI	FPYDHYASWKDRKDI	FSDINLKHENILQF
mActR-IIB	LLEIKARGRFPGCVWKAQLAN-----	DFVAVKI	KPLQDKQSWQSEREI
mActR-II	LLEVKARGRFPGCVWKAQLLN-----	EYVAVKI	FPIQDKQSWQNEYEVYSI
daf-1	LKRVGSGRFGNVSRGDYRG-----	EAVAVKVFNAI	DEPAFHKEIEIFETRMRLRHPNVLRY
subdomains	I	II	III IV

htGFBR-II	LTAERKTELKQYWLITAFHAKGNLQEYLTRHVISWEDLRNVGSSLARGLSHLHSDHTP-C
mActR-IIB	IAAEKRGSNLEVELWLITAFHDKGSLIDYLKGNITWNELCHVAETMSRGI SYLHEDVPWCR
mActR-II	IGAERGTSDVDLWLITAFHEKGSLSDFLKANVVSWNELCHIAETMARGLAYLHEDI PGLK
daf-1	IGSDRVDTGFTVTELWLVI EYHPSGSLHDFLENTVNIETYYNLARSTASGLAFLHNQIGGSK
subdomains	V VI-A

cons.aa	DLK N	DFG
htGFBR-II	-GRPKMPIVHRDLKSSNILVKNDLTCCLCDFGLSRL--	GPYSSVDDLANSQGVGTARYMAP
mActR-IIB	GECHKPSIAHRDFKSNVLLKSDLTAVLADFGLAVERF--	EPGKPPGD--THGQVGTTRYMAP
mActR-II	-DGHKPAISHRDIKSNVLLKNNLTACIADFGLALKF--	EAGKSAGD--THGQVGTTRYMAP
daf-1	-ESNKPAMAHRDIKSNIMYKNDLTCAIGDLGLSLSKPEDAASDIAN--	ENYKCGTVRYLAP
subdomains	VI-B	VII VIII

Fig. 1

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a.a C C E G N M C

5' GCGGATCCTGTTGTGAAGGNAATATGTG 3' Fig. 2A

BAMHI C C G C

a.a V A V K I F

5' GCGGATCCGTCGCAGTCAAAATTTT 3' Fig. 2B

BamHI G C G G C
T T T A

a.a R D I K S K N

5' GCGGATCCGCGATATTAAAAGCAA 3' Fig. 2C

BAMHI A C C GTCT
G A

a.a E P A M Y

5' CGGAATTCTGGTGCCATATA Fig. 2D

EcoRI G G G
A A

[illegible][illegible]

Fig. 3

ACTR-II
 ACTR-IIB
 TGR-II
 TGR-I/ALK-S
 ALK-1
 ALK-2
 ALK-3
 ALK-4
 ALK-6

ACCR-11
 ACCR-118
 TRR-11
 ISR-1/ALK-5
 ALK-1
 ALK-2
 ALK-3
 ALK-4
 ALK-6

Fig. 3 contd.

FGGC V W K A Q L L N E Y V A V K I F P I Q D K Q S W Q S S L P G M A C C R - I I
 FGGC V W K A Q L M N D F V A V K I F P L Q D K Q S W Q S S L P G M A C C R - I I B
 F A E V Y K A K L K Q E T S E Q F E T V A V K I F S S R E E Y A S W K T E K D I I F S D I N L T B R - I I
 F C E V W R G C L W H G E S V A V K I F S S R E E Y A S W F R E T E I Y Q T V V L M L T B R - I / A L K - S
 Y C E V W R G C L W H G E S V A V K I F S S R E E Y A S W F R E T E I Y Q T V V L M L A L K - 1
 Y C E V W R G C L W H G E S V A V K I F S S R E E Y A S W F R E T E I Y Q T V V L M L A L K - 2
 Y C E V W R G C L W H G E S V A V K I F S S R E E Y A S W F R E T E I Y Q T V V L M L A L K - 3
 Y C E V W R G C L W H G E S V A V K I F S S R E E Y A S W F R E T E I Y Q T V V L M L A L K - 4
 Y C E V W R G C L W H G E S V A V K I F S S R E E Y A S W F R E T E I Y Q T V V L M L A L K - 6

III

II

K H E M I L Q F I G A E K R G T S S V D V D E L M L I T A F H E K G S L S D F L K A M V V S W A C C R - I I
 K H E M I L Q F I A A E K R G T S S V D V D E L M L I T A F H E K G S L S D F L K A M V V S W A C C R - I I B
 K H E M I L Q F I A A E E R K T E L G K Q Y L M L I T A F H E K G S L S D F L K A M V V S W T B R - I I
 R H E M I L G F I A A D M T S R H S S T Q L M L I T A F H E K G S L S D F L K A M V V S W T B R - I / A L K - S
 R H E M I L G F I A A D M T S R H S S T Q L M L I T A F H E K G S L S D F L K A M V V S W T A L K - 1
 R H E M I L G F I A A D M T S R H S S T Q L M L I T A F H E K G S L S D F L K A M V V S W T A L K - 2
 R H E M I L G F I A A D M T S R H S S T Q L M L I T A F H E K G S L S D F L K A M V V S W T A L K - 3
 R H E M I L G F I A A D M T S R H S S T Q L M L I T A F H E K G S L S D F L K A M V V S W T A L K - 4
 R H E M I L G F I A A D M T S R H S S T Q L M L I T A F H E K G S L S D F L K A M V V S W T A L K - 6

V

IV

N E L C H V A E T M A R G L A Y L M E D I P - G L K D G C H K P A I S H R D I K S K M V L L A C C R - I I
 N E L C H V A E T M S R G L S Y L M E D V P P W C R - G R P K P S I A H R D F K S K M V L L A C C R - I I B
 E D G M I K L A L S S T A S G L A H L H S D M T P C - - - - - V T Q Q C K P A I A H R D L K S K M I L V T B R - I I
 H L A C L R I V L S S A A S G L A H L H S D M T P C - - - - - V T Q Q C K P A I A H R D L K S K M I L V T B R - I / A L K - S
 V S C L R I V L S S A A S G L A H L H S D M T P C - - - - - V T Q Q C K P A I A H R D L K S K M I L V A L K - 1
 R A L K L A L S S A A S G L A H L H S D M T P C - - - - - V T Q Q C K P A I A H R D L K S K M I L V A L K - 2
 E G M I K L A L S S A A S G L A H L H S D M T P C - - - - - V T Q Q C K P A I A H R D L K S K M I L V A L K - 3
 K S M L K L A L S S A A S G L A H L H S D M T P C - - - - - V T Q Q C K P A I A H R D L K S K M I L V A L K - 4
 K S M L K L A L S S A A S G L A H L H S D M T P C - - - - - V T Q Q C K P A I A H R D L K S K M I L V A L K - 6

VIB

VIA

Fig. 3 contd.

viii

vii

X

xi

ACTR-II
ACTR-11B
TBR-II
TBR-I/ALK-S
ALK-1
ALK-2
ALK-3
ALK-4
ALK-6

Fig. 3 contd.

FIG. 2a

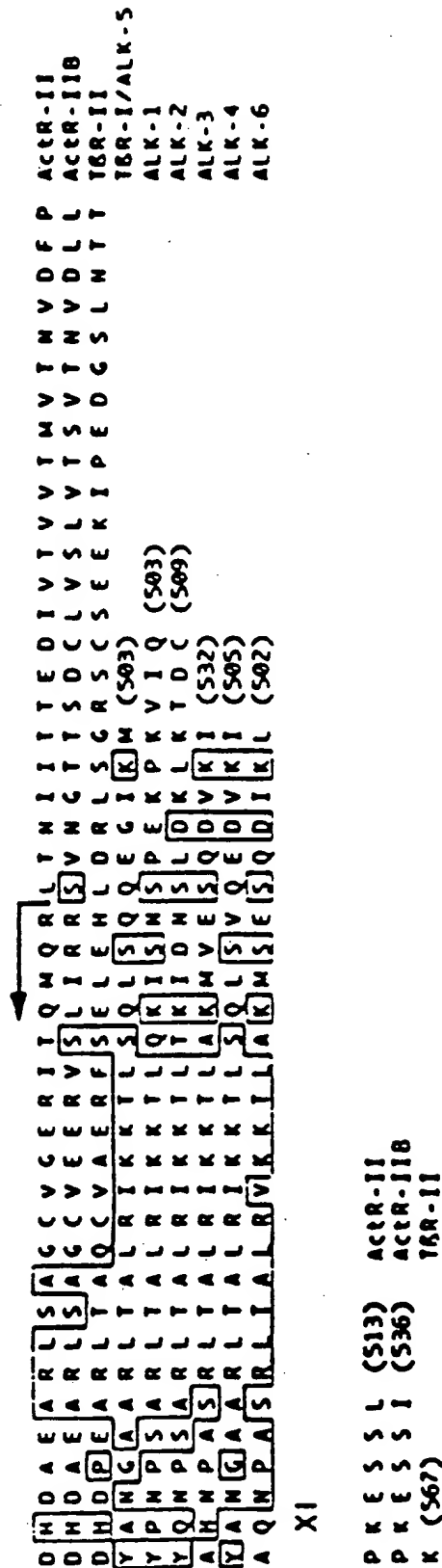


Fig. 3 contd.

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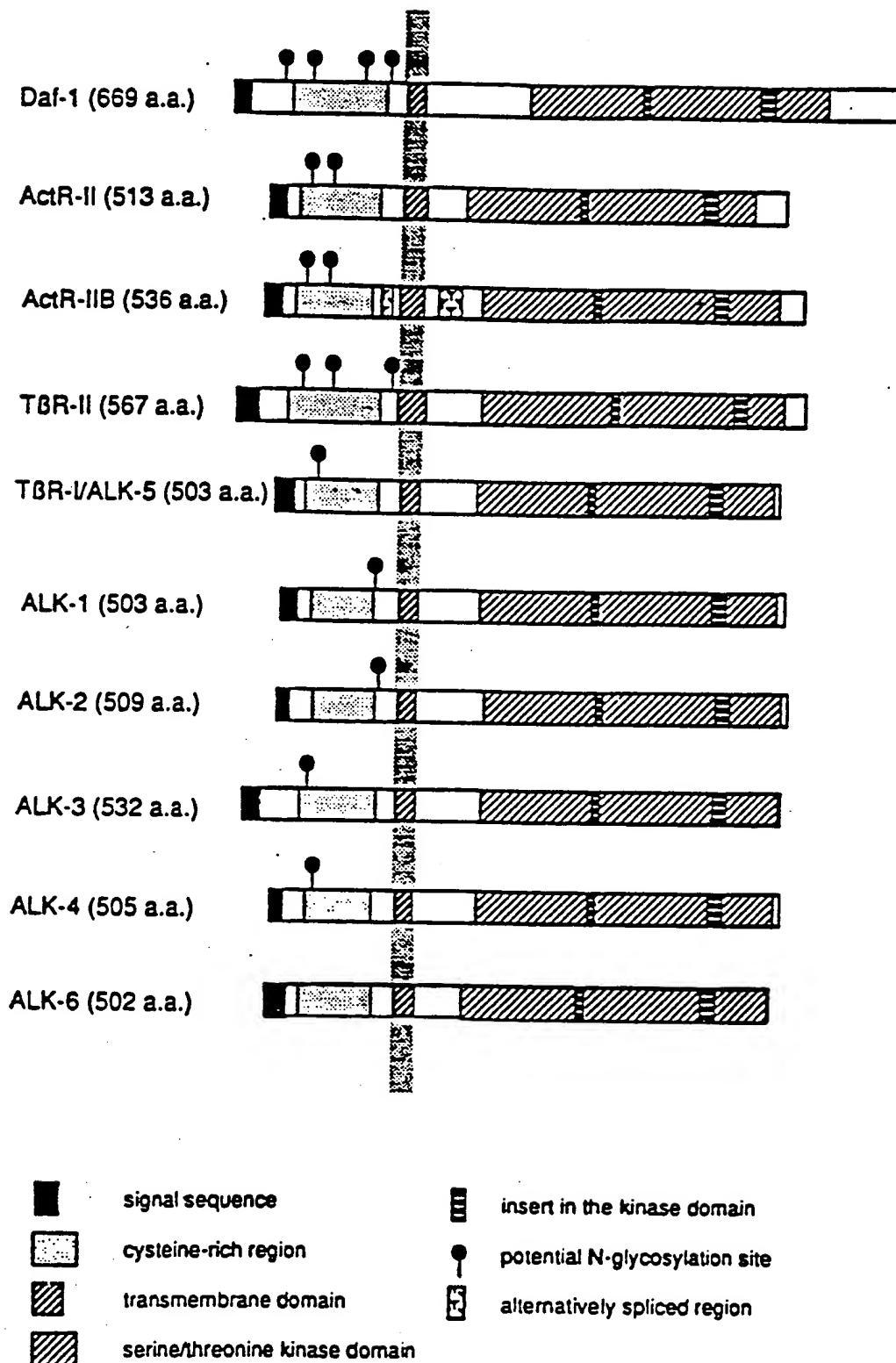


Fig. 4

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ALK-2	ALK-3	ALK-4	ALK-5	ActR-II	ActR-IIB	TBR-II	daf-1	
79	60	61	63	40	40	37	39	ALK-1
	63	64	65	41	39	37	39	ALK-2
		63	65	41	38	37	39	ALK-3
			90	41	40	39	42	ALK-4
				42	40	41	43	ALK-5
					78	48	35	ActR-II
						47	32	ActR-IIB
							34	TBR-II

Fig. 6

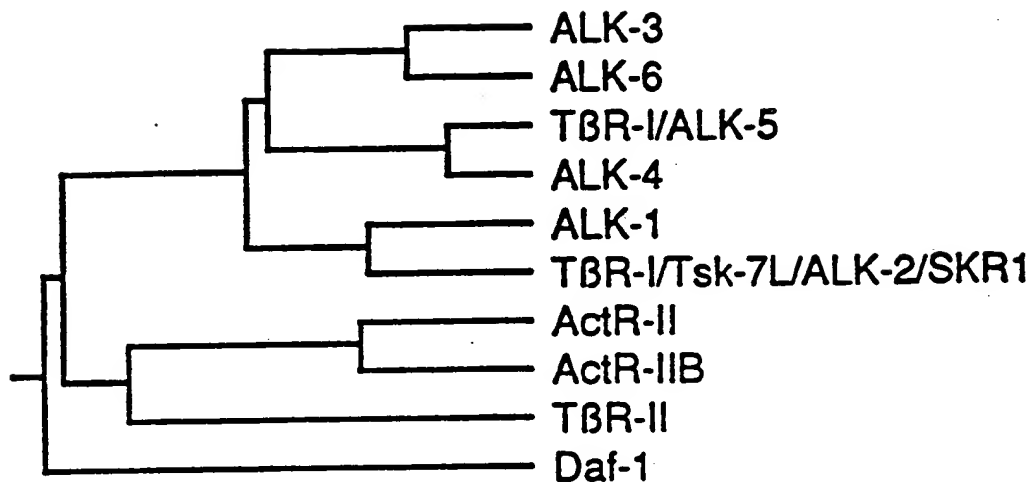


Fig. 7